[p. 174]

313 Consequently, every Cherán male is a fairly competent axman and in a pinch can produce other forest products. Oak is considered far [824] superior to other woods for burning, but it is becoming scarce near the town. The best supply is near El Pilón, several kilometers away.

With some exceptions, most skilled woodsmen work only when they have to fill definite orders. In other words, no stock of lumber or shakes is accumulated against possible future sales. Lumber or shake workers usually are farmers who supplement their income by forest products when opportunity offers. Not infrequently one or two members of a large household do lumbering but help in the fields when necessary or when unoccupied.

[824] Pine is the main wood used for lumber, and fir for shakes. Trees ordinarily are cut with the ax (jáca). Trunks are cut in sections with a saw (*"sardina"*) (fig. 1, *g*), which is operated by two persons. The trunks are cleared and debarked with the ax. The trunk is then squared by splitting off slabs (*"tachones"*), with oak wedges some 20 cm. (8 in.) in length driven by an oaken maul or the butt of the ax. The slabs are used for firewood or fences. Thick planks called *"vigas"* (anything over 2 [401] inches in thickness) are then split out with wedges. Before use, heavy planks usually are dressed with a long-handled adz (angáru) (fig. 1, *e*). Thinner pieces, *tablas* (k'eréri), are sawed from squared sections of logs (pl. 4, upper right). The logs are elevated on a scaffolding of poles (or sometimes laid on poles across a saw pit) and sawed out by a saw (k'eréri aɨákutarakua) about 2 m. (6 ft.) long and wider at one end than at the other (fig. 1, *d*; pl. 3, upper right). The handle at the wide end is fixed, and that at the narrow end is hooked over the teeth of the saw. Before sawing, the block of timber is marked with a cord used like a chalk line but employing charcoal instead of chalk. All the planks from a block of timber are usually sawed about two-thirds of the length of the block; work is then begun at the opposite end. Planks customarily are

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[438] 1 centavo buys a thick piece. In Parangaricutiro, partly Mestizoized, there is some cutting of firewood as a business. In one case a
[435] father and three sons, 10, 12, and 18 years of age, cut a cord a
[563] day (16 *cargas*), which sold for $1.50 (all monetary values are in Mexican currency). In Paricutin two widows without grown sons buy firewood. The women are not poor.

[p.17b]

313 about 1 inch thick, 6 to 8 feet long, and 6 to 8 inches wide. Planks cut from timber with a heavy pitch content are said to last longer.

Beams are usually squared sections of red (heart) wood. They are used primarily for foundations and joists and are split out by wedges.

[438] An important product of Cherán is shakes, *tejamanil* (tasámani). The product is all exported, mostly to Zacapu. Some is also taken
[824] to Uruapan. Pine is rarely used for shakes, as the product curls during dry weather and is not as durable as shakes made from fir. However, fir shakes are more brittle. Fir trees grow only sporadically among the pine forests and must be searched for. Once a tree is found, the shake maker examines it carefully, studying the position of branches and estimating the probable straightness of the grain. If the tree does not look promising, it is left. Even after a tree has been felled with the ax, it may prove unsuitable for shakes. In this case it may be hewed into a beam, but it is more apt to be abandoned.

If the tree proves suitable, it is cut in lengths with saw or ax and the bark is removed, together with any rotten or insect-eaten portions. Each length is now split in sections (péri) with
● [401] a wedge, *cuña* (injárukua). Each section has a width of four fingers at its outer edge, and a tree of average size will produce eight sections. One end of each section is then marked with a machete along the radii of the trunk. The section is first marked in the middle; each half is then divided in two, then each quarter, until 16 divisions are marked. At each mark the machete is driven in with blows of an oaken club to a depth of about 5 cm. The shakes are then split off with an oaken instrument called a *rajador* (uárugua). (Pl. 3, lower right and left.)

The completed shakes are thin and wedge-shaped when viewed in cross section. After
[804] drying in the sun for 2 or 3 hours they are tied into bundles of 400 called an irépita (400 in Tarascan). They are transported and sold by the bundle, the price varying according to the
[438] length. Different villages and Mexican markets have preferences for different lengths, usually 4, 5, or 6 *cuartas*.[9]

[9] A cuarta equals ¼ of a vara (the standard measure of length, about 32 inches long).

[text continues on p. 19a]